

IN THE CLAIMS

Please amend the claims as follows:

Claim 1. (Currently Amended) A lithium secondary battery, comprising:

a positive electrode, a negative electrode, and a nonaqueous electrolytic solution comprising an electrolyte salt dissolved in a nonaqueous solvent, wherein
said positive electrode comprises a material including a lithium compound oxide,
said negative electrode comprises a material including graphite, and
said nonaqueous electrolytic solution ~~comprises~~ further comprising 0.01 to 10 % by weight of an asymmetric dialkyl oxalate having two different alkyl groups and ~~further comprises~~ 0.01 to 20 % by weight of vinylene carbonate and/or 0.01 to 20 % by weight of 1,3-propanesultone, each based on the weight of said nonaqueous electrolytic solution.

Claim 2. (Currently Amended) The lithium secondary battery according to claim 1, wherein the ~~alkyl group of said dialkyl oxalate has 1 to 12 carbon atoms~~ asymmetric dialkyl oxalate is methyl ethyl oxalate.

Claim 3. (Canceled)

Claim 4. (Previously Presented) The lithium secondary battery according to claim 1, wherein said nonaqueous solvent is a combination of a cyclic carbonate with a linear carbonate or a combination of a cyclic carbonate with a lactone.

Claim 5. (Previously Presented) The lithium secondary battery according to claim 4, wherein said linear carbonate comprises methyl ethyl carbonate.

Claim 6. (Previously Presented) The lithium secondary battery according to claim 1, wherein said nonaqueous solvent is a combination of propylene carbonate with dimethyl carbonate, a combination of ethylene carbonate with methyl ethyl carbonate, a combination of ethylene carbonate with diethyl carbonate or a combination of ethylene carbonate with γ -butyrolactone.

Claim 7. (Previously Presented) The lithium secondary battery according to claim 1, wherein said graphite has a lattice spacing (d_{002}) of the lattice face (002) of 0.340 nm or less.

Claim 8. (Previously Presented) The lithium secondary battery according to claim 1, wherein the positive electrode active material is a lithium compound metal oxide showing an open circuit voltage of at least 4.3 V on the basis of Li after completion of charging.

Claim 9. (Currently Amended) A nonaqueous electrolytic solution for a lithium secondary battery comprising a positive electrode and a negative electrode, ~~and said nonaqueous electrolytic solution comprising an electrolyte salt dissolved in a nonaqueous solvent, wherein said nonaqueous electrolytic solution comprises~~ 0.01 to 10 % by weight of an asymmetric dialkyl oxalate having two different alkyl groups and ~~further comprises~~ 0.01 to 20 % by weight of vinylene carbonate and/or 0.01 to 20 % by weight of 1,3-propanesultone, each based on the weight of said nonaqueous electrolytic solution.

Claim 10. (Previously Presented) The lithium secondary battery according to claim 1, wherein the electrolyte salt is LiPF_6 , LiBF_4 , LiClO_4 , lithium salts containing linear alkyl groups, $\text{LiN}(\text{SO}_2\text{CF}_3)_2$, $\text{LiN}(\text{SO}_2\text{C}_2\text{F}_5)_2$, $\text{LiC}(\text{SO}_2\text{CF}_3)_3$, $\text{LiPF}_4(\text{CF}_3)_2$, $\text{LiPF}_3(\text{C}_2\text{F}_5)$

$3, \text{LiPF}_3(\text{CF}_3)_3$, $\text{LiPF}_3(\text{iso-C}_3\text{F}_7)_3$, and $\text{LiPF}_5(\text{iso-C}_3\text{F}_7)$ or lithium salts having a cyclic alkylene group or $(\text{CF}_2)_2(\text{SO}_2)_2\text{NLi}$ or $(\text{CF}_2)_3(\text{SO}_2)_2\text{NLi}$.

Claim 11. (Previously Presented) The lithium secondary battery according to claim 1, wherein the positive electrode comprises a positive lithium compound on an electron conductive material.

Claim 12. (Previously Presented) The lithium secondary battery according to claim 11, wherein the positive lithium compound is LiCoO_2 , LiMn_2O_4 , LiNiO_2 , $\text{LiCo}_{1-x}\text{Ni}_x\text{O}_2$ ($0.01 < x < 1$), or a mixture of LiCoO_2 with LiMn_2O_4 , a mixture of LiCoO_2 and LiNiO_2 or a mixture of LiMn_2O_4 and LiNiO_2 .

Claim 13. (Previously Presented) The lithium secondary battery according to claim 11, wherein the electron conductive material is a natural graphite, an artificial graphite, acetylene black, ketjen black, channel black, furnace black, lamp black or thermal black.

Claim 14. (Cancelled)

Claim 15. (Previously Presented) The lithium secondary battery according to claim 1, wherein the battery further comprises a separator that has a porosity of 30 to 60 %.

Claim 16. (Previously Presented) The lithium secondary battery according to claim 1, wherein the battery further comprises a separator that has an air permeability of 50 to 1000 seconds/100 cc.

Claim 17. (Previously Presented) The lithium secondary battery according to claim 1, wherein the battery further comprises a separator that has a thickness of 5 to 50 μm .

Claim 18. (Previously Presented) The lithium secondary battery according to claim 1, wherein the thickness of an electrode layer of the positive electrode ranges from 30 to 120 μm .

Claim 19. (Previously Presented) The lithium secondary battery according to claim 1, wherein the thickness of an electrode layer of the negative electrode ranges from 1 to 100 μm .

Claim 20. (Previously Presented) The lithium secondary battery according to claim 1, wherein the density of the positive electrode formed as a positive electrode mixture layer on an aluminum foil is 3.2 to 4.0 g/cm^3 , and wherein the density of the negative electrode formed as a negative electrode mixture layer on a copper foil is 1.3 to 2.0 g/cm^3 .

Claim 21. (New) The lithium secondary battery according to claim 1, wherein the asymmetric dialkyl oxalate is a dialkyl oxalate having a methyl group and an alkyl group having 2 to 4 carbon atoms, a dialkyl oxalate having an ethyl group and an alkyl group having 3 to 4 carbon atoms, or a dialkyl oxalate having an alkyl group having 1 or 2 carbon atoms and an alkyl group having 6 to 12 carbon atoms.

Claim 22. (New) The lithium secondary battery according to claim 21, wherein the asymmetric dialkyl oxalate is methyl ethyl oxalate, methyl propyl oxalate or methyl butyl oxalate.

Claim 23. (New) The lithium secondary battery according to claim 21, wherein the asymmetric dialkyl oxalate is methyl hexyl oxalate, methyl heptyl oxalate, methyl octyl oxalate, methyl nonyl oxalate, methyl decyl oxalate, methyl undecyl oxalate, methyl dodecyl oxalate, ethyl hexyl oxalate, ethyl octyl oxalate, ethyl decyl oxalate or ethyl dodecyl oxalate.